Class Tasks A1.3.2
Relationships and Keys
Suggested Answers

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Class Task 1.3.2 Normalisation Exercises

- Look at the following database data.
- Normalise the data by identifying any new tables and any relationships.
- Show the newly identified tables and the data they contain as well as any new foreign keys.
- Build the empty tables in a new Access Database and screen print the relationship diagram.
- **Time allowed: 20 minutes.**

Database 1 – The Music Database

Genre ID	Genre	Artist Name	Album ID	Album Title
1	60’s	The Beatles	1	Help
1	60’s	The Beatles	2	Red Album

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Database 1 – The Music Database – Suggested Answers

The Album Table

Album ID	Album Title	fGenreID
1	Help	**1**

The Genre Table

Genre ID	Genre
1	60’s

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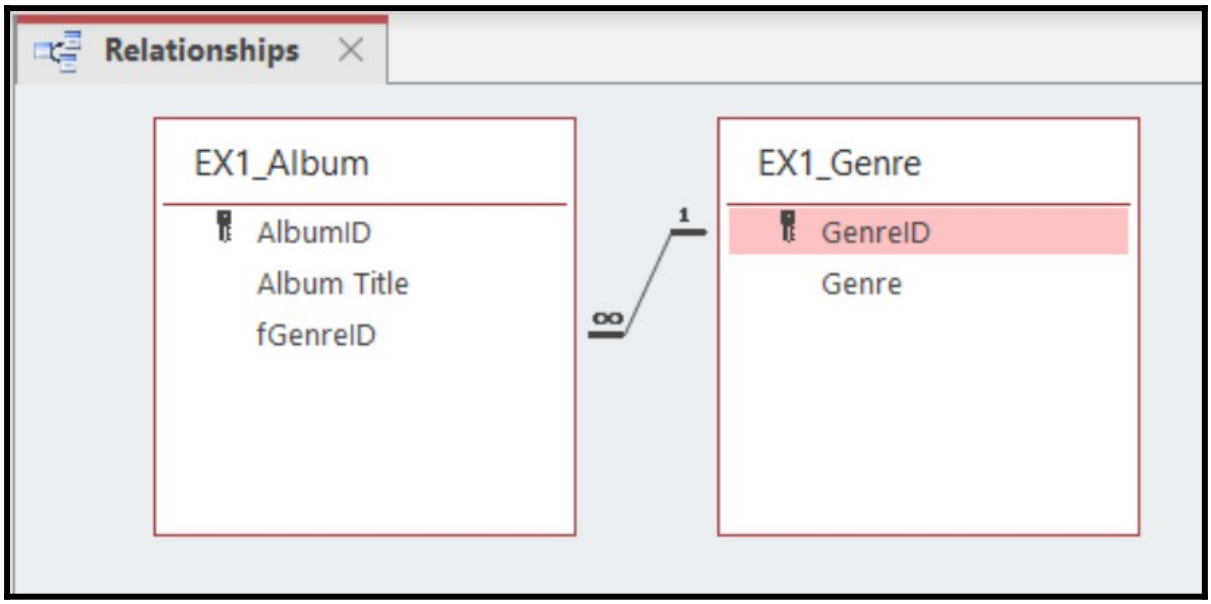
Relationship

There is a One-to-Many relationship between Album and Genre.

One Genre has many Albums, but each Album belongs to one Genre.

Relationship Screen Print



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Database 2 – The Film Database

Film ID	Film Name	Genre ID	Genre	Film Year	Director ID	Director Name
1	Avatar	1	Science Fiction	2009	1	James Cameron

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Database 2 – The Film Database Suggested Answers

The Film Table

Film ID	Film Name	Film Year	fDirector ID	fGenre ID
1	Avatar	2009	1	1
2	Star Trek	2013	2	1

The Genre Table

Genre ID	Genre

The Director Table

Director ID	Director Name

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Relationships.

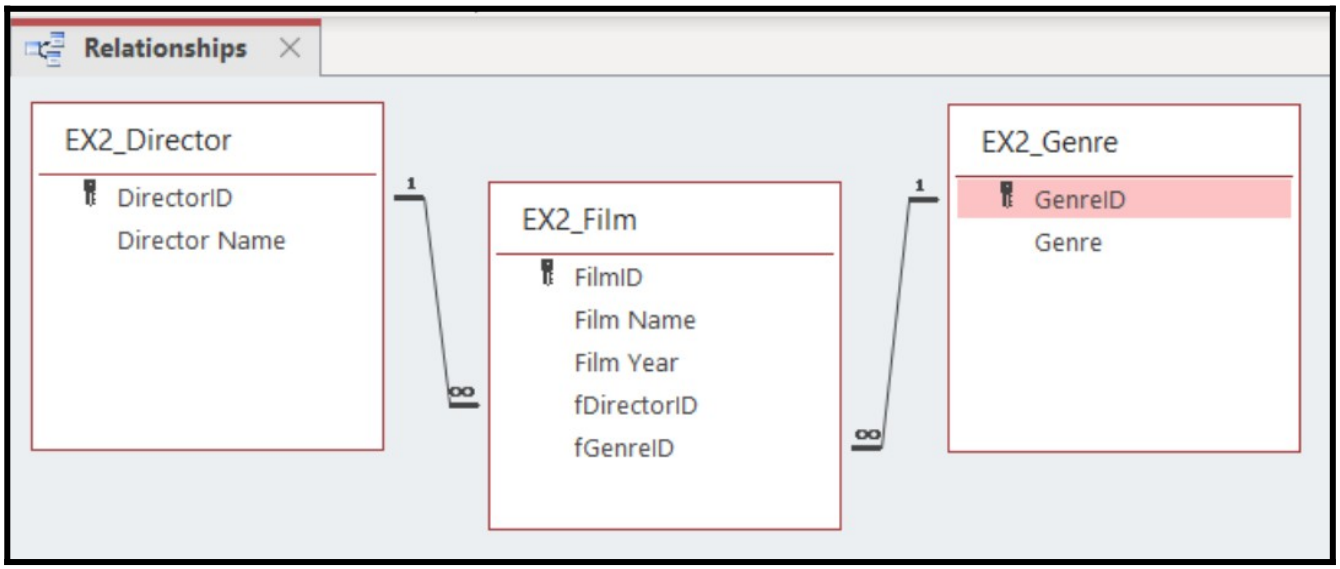
There is a One-To-Many Relationship between Film and Director.

A Director can have many Films, but each Film has only one Director.

There is a One-To-Many Relationship between Film and Genre.

A Genre can have many Films, but each Film belongs to only one Genre.

Relationship Screen Print



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Database 3 – the Author Database

Book ID	Author ID	Author Name	Book Title	Author Rating	Author Rating ID
4	**34**	R. L. Stine	Goosebumps	Top Seller	**1**

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Database 3 – The Author Database Suggested Answers

The Book Table

Book ID	Book Title	fAuthor ID
5	Twilight	**23**

The Author Table

Author ID	Author Name	fAuthor Rating ID
34	R. L. Stine	**1**

The Book Type Table

Author Rating ID	Author Rating

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Relationships.

There is a One-To-Many Relationship between Book and Author.

An Author can have many Books, but each Book has only one Author.

There is a One-To-Many Relationship between Author and Author Rating.

An Author Rating can have many Authors, but each Author has only one Author Rating.

Relationships Screen Print

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